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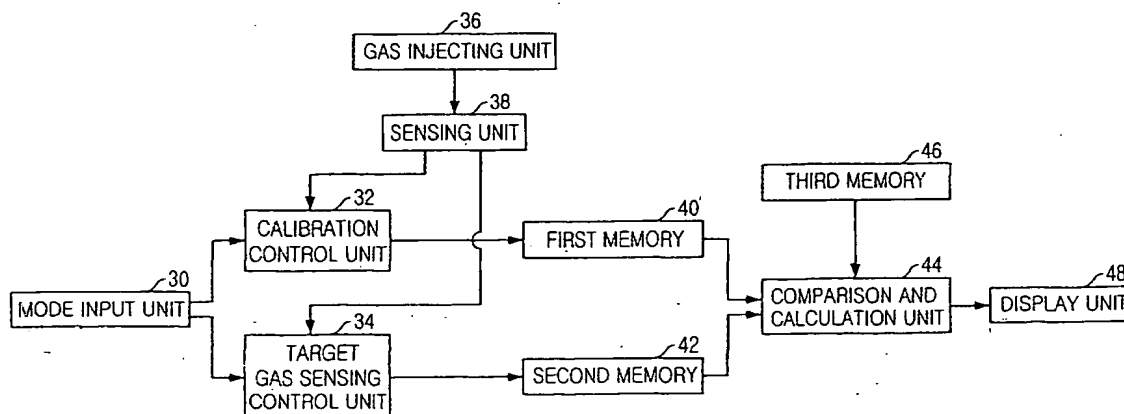
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(54) Title: PORTABLE GAS SENSOR AND METHOD FOR CALIBRATING THE SAME



(57) Abstract: The present invention provides a portable gas sensor having a sensing material reacted with a target gas. The portable gas sensor includes a mode input unit for selecting an operation mode; a gas inhaling unit for accepting an external gas; a sensing unit for outputting a voltage value corresponding a varied resistance value of the sensing material reacted with the external gas; a first memory for storing a reference voltage value corresponding a resistance value of the sensing material reacted with a reference gas; a calibration control unit for storing a first voltage value corresponding to a resistance value of the sensing material reacted with a substitute reference gas in the first memory by substituting the reference voltage value; a target gas sensing control unit for storing a second voltage correspond to a resistance value of the sensing material reacted with the target gas into the second memory; a comparison and calculation unit for comparing and calculating the first voltage value and the second voltage value; and a display unit for displaying a concentration of the target gas calculated in the comparison and calculation unit.